

# Comparisons of Job Characteristics

**Focus Occupation:** [Electricians \(47-2111\)](#)

**Associated Occupation:** [Radio, Cellular, and Tower Equipment Installers and Repairers \(49-2021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 70

**Focus Occupation:** Electricians (47-2111)

**Associated Occupation:** Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Computers and Electronics	8.4	16.8	10.1	<<	Extensive education and/or training may be required
Telecommunications	3.9	15.2	10.4	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	15.1	11.8	<<	Extensive education and/or training may be required
Design	5.2	9.9	13.4	>>	Current knowledge level is likely more than sufficient
Physics	4.3	9.4	10.9	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 79

**Focus Occupation:** Electricians (47-2111)

**Associated Occupation:** Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Repairing	3.4	11.5	11.6	0	Current skill level may be sufficient
Quality Control Analysis	5.9	11.2	11.0	0	Current skill level may be sufficient
Troubleshooting	4.5	10.7	12.3	>	Skill level is likely sufficient
Equipment Maintenance	3.5	10.0	10.3	0	Current skill level may be sufficient
Equipment Selection	3.3	8.0	8.4	0	Current skill level may be sufficient
Installation	1.7	6.2	9.4	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 87

**Focus Occupation: Electricians (47-2111)**

**Associated Occupation: Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Finger Dexterity	7.6	12.5	11.8	0	Current ability level may be sufficient
Manual Dexterity	6.5	10.8	11.6	0	Current ability level may be sufficient
Visualization	7.5	10.8	12.2	>	Current ability level is likely sufficient
Arm-Hand Steadiness	6.8	10.7	11.0	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	8.3	7.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation: Electricians (47-2111)**

**Associated Occupation: Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)**

Work Activities	Exclusivity of Activity
Analyze operation of malfunctioning electrical or electronic equipment	68
Distinguish colors	44
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electronic power, communication, control, or security equipment or systems	76
Install/connect electrical equipment to power circuit	57
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read technical drawings	7
Repair electronic components, equipment, or systems	74
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Replace electronic components	63
Solder electrical or electronic connections or components	55
Test electrical/electronic wiring, equipment, systems or fixtures	54
Test electronic or electrical circuit connections	66
Understand service or repair manuals	40
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77
Use soldering equipment	44
Use voltmeter, ammeter, or ohmmeter	52

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Electricians (47-2111)**

**Associated Occupation: Radio, Cellular, and Tower Equipment Installers and Repairers (49-2021)**

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.